

=> d ibib abs hitstr 1-2

THE ESTIMATED COST FOR THIS REQUEST IS 11.62 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:299537 CAPLUS

DOCUMENT NUMBER: 144:357642

TITLE: Preparation of quaternized chelidonine and related
alkaloid derivatives for use in pharmaceutical
compositions

INVENTOR(S): Nowicky, Wassył

PATENT ASSIGNEE(S): Austria

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

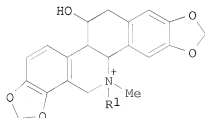
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006032380	A1	20060330	WO 2005-EP9699	20050909
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
CA 2593202	A1	20060330	CA 2005-2593202	20050909
EP 1833839	A1	20070919	EP 2005-782899	20050909
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
PRIORITY APPLN. INFO.:			EP 2004-22299	A 20040920
			WO 2005-EP9699	W 20050909

OTHER SOURCE(S): MARPAT 144:357642

GI



AB Quaternized alkaloid reaction products, such as I (R1 = OH, SH, alkyl, etc.), were prepared by reaction of an alkaloid with a quaternizing agent, such as thiotepa. These quaternized alkaloids were claimed for use in the treatment of immunol. or metabolic dysfunction, cancer, bacterial, fungal

and viral infections, radiation damage, epilepsy, multiple sclerosis, skin diseases, postoperative wounds, pain, sleeping disease, herpes infections, influenza virus infections, skin tumors, allergies, chronic fatigue syndrome, osteoporosis, rheumatic diseases, and scars. Chelidonine quaternary ammonium reaction product with thiotepea was subjected to a number of pharmacol. tests including anticancer activity.

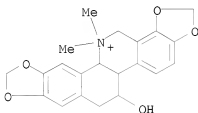
IT 74052-25-8P 765900-94-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of quaternized reaction products of chelidonine and related alkaloids for therapeutic uses, such as treatment of cancer)

RN 74052-25-8 CAPLUS

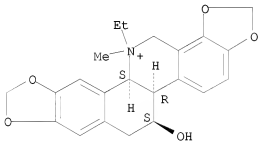
CN Chelidoninium, 5-methyl- (9CI) (CA INDEX NAME)



RN 765900-94-5 CAPLUS

CN [1,3]Benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridinium, 13-ethyl-5b,6,7,12b,13,14-hexahydro-6-hydroxy-13-methyl-, (5bR,6S,12bS)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on SIN

ACCESSION NUMBER: 2004:799472 CAPLUS

DOCUMENT NUMBER: 141:319999

TITLE: Quaternary chelidonine and alkaloid derivatives preparation and antitumor activity

INVENTOR(S): Nowicky, Wassył

PATENT ASSIGNEE(S): Austria

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082698	A1	20040930	WO 2004-EP2637	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1459753	A1	20040922	EP 2003-6015	20030318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1532198	A	20040929	CN 2003-137355	20030619
AU 2004222661	A1	20040930	AU 2004-222661	20040312
AU 2004222661	B2	20081002		
CA 2517769	A1	20040930	CA 2004-2517769	20040312
BR 2004008386	A	20060321	BR 2004-8386	20040312
EP 1644012	A1	20060412	EP 2004-719983	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520763	T	20060914	JP 2006-504683	20040312
ZA 2005007020	A	20061129	ZA 2005-7020	20040312
NZ 542151	A	20081128	NZ 2004-542151	20040312
SG 158748	A1	20100226	SG 2007-6589	20040312
IN 2005KN01730	A	20060825	IN 2005-KN1730	20050831
IN 237882	A1	20100115		
NO 2005004130	A	20051219	NO 2005-4130	20050906
MX 2005009919	A	20060321	MX 2005-9919	20050915
US 20060154947	A1	20060713	US 2005-549433	20051017
HR 2005000987	A2	20070731	HR 2005-987	20051208
PRIORITY APPLN. INFO.:			EP 2003-6015	A 20030318
			CH 2001-2094	A 20011115
			WO 2004-EP2637	A 20040312

OTHER SOURCE(S): MARPAT 141:319999

AB The invention relates to alkaloid reaction products obtainable by reaction with an alkylating agent, preferably thiotepa, whereafter unreacted alkylating agent and other water-soluble compds. are removed from the reaction mixture by washing with water or a suitable aqueous solvent, whereafter

the reaction mixture is subjected to a treatment with strong acid, preferably HCl, to precipitate a water soluble salt of the reaction products.

The precipitated reaction products comprise at least one quaternary alkaloid derivative

and are suitable as drugs for prophylactic or therapeutic application, particularly in the treatment of immunol. or metabolic dysfunctions, and cancer. Chelidonine was reacted with thiotepa to give a quaternary ammonium derivative which was subjected to a number of pharmacol. tests including

anticancer activity.

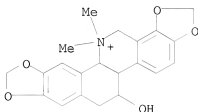
IT 74052-25-8, Chelidonium, 5-methyl- 765900-94-5

10/549,433

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(quaternary chelidonine and alkaloid derivs. preparation and antitumor activity)

RN 74052-25-8 CAPLUS

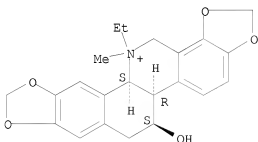
CN Chelidoninium, 5-methyl- (9CI) (CA INDEX NAME)



RN 765900-94-5 CAPLUS

CN [1,3]Benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridinium,
13-ethyl-5b,6,7,12b,13,14-hexahydro-6-hydroxy-13-methyl-, (5bR,6S,12bS)-
(CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:06:47 ON 10 MAY 2010)

FILE 'REGISTRY' ENTERED AT 14:07:06 ON 10 MAY 2010

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 6 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:07:52 ON 10 MAY 2010

L4 7 S L3

L5 1383 S WATER-SOLUBLE FORM?

L6 0 S L4 AND L5

L7 203603 S HYDROCHLORIDE OR HYDROBROMIDE

L8 2 S L4 AND L7

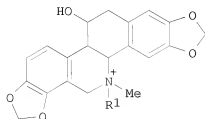
=> d ibib abs hitstr L4 1-7

THE ESTIMATED COST FOR THIS REQUEST IS 40.67 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2006:299537 CAPLUS
 DOCUMENT NUMBER: 144:357642
 TITLE: Preparation of quaternized chelidonine and related alkaloid derivatives for use in pharmaceutical compositions
 INVENTOR(S): Nowicky, Wassyl
 PATENT ASSIGNEE(S): Austria
 SOURCE: PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006032380	A1	20060330	WO 2005-EP9699	20050909
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM CA 2593202 A1 20060330 CA 2005-2593202 20050909 EP 1833839 A1 20070919 EP 2005-782899 20050909 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU PRIORITY APPLN. INFO.: EP 2004-22299 A 20040920 WO 2005-EP9699 W 20050909 OTHER SOURCE(S): MARPAT 144:357642 GI				



I

AB Quaternized alkaloid reaction products, such as I (R1 = OH, SH, alkyl, etc.), were prepared by reaction of an alkaloid with a quaternizing agent, such as thiotepa. These quaternized alkaloids were claimed for use in the treatment of immunol. or metabolic dysfunction, cancer, bacterial, fungal and viral infections, radiation damage, epilepsy, multiple sclerosis, skin diseases, postoperative wounds, pain, sleeping disease, herpes infections,

influenza virus infections, skin tumors, allergies, chronic fatigue syndrome, osteoporosis, rheumatic diseases, and scars. Chelidonine quaternary ammonium reaction product with thiotepa was subjected to a number of pharmacol. tests including anticancer activity.

IT 74052-25-8P 765900-94-5P

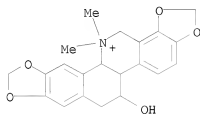
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of quaternized reaction products of chelidonine

and related alkaloids for therapeutic uses, such as treatment of cancer)

RN 74052-25-8 CAPLUS

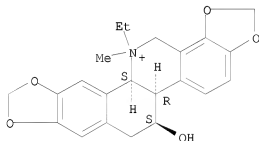
CN Chelidoninium, 5-methyl- (9CI) (CA INDEX NAME)



RN 765900-94-5 CAPLUS

CN [1,3]Benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridinium, 13-ethyl-5b,6,7,12b,13,14-hexahydro-6-hydroxy-13-methyl-, (5bR,6S,12bS)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:799472 CAPLUS

DOCUMENT NUMBER: 141:319999

TITLE: Quaternary chelidonine and alkaloid derivatives preparation and antitumor activity

INVENTOR(S): Nowicky, Wassyl

PATENT ASSIGNEE(S): Austria

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082698	A1	20040930	WO 2004-EP2637	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1459753	A1	20040922	EP 2003-6015	20030318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1532198	A	20040929	CN 2003-137355	20030619
AU 2004222661	A1	20040930	AU 2004-222661	20040312
AU 2004222661	B2	20081002		
CA 2517769	A1	20040930	CA 2004-2517769	20040312
BR 2004008386	A	20060321	BR 2004-8386	20040312
EP 1644012	A1	20060412	EP 2004-719983	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520763	T	20060914	JP 2006-504683	20040312
ZA 2005007020	A	20061129	ZA 2005-7020	20040312
NZ 542151	A	20081128	NZ 2004-542151	20040312
SG 158748	A1	20100226	SG 2007-6589	20040312
IN 2005KN01730	A	20060825	IN 2005-KN1730	20050831
IN 237882	A1	20100115		
NO 2005004130	A	20051219	NO 2005-4130	20050906
MX 2005009919	A	20060321	MX 2005-9919	20050915
US 20060154947	A1	20060713	US 2005-549433	20051017
HR 2005000987	A2	20070731	HR 2005-987	20051208
PRIORITY APPLN. INFO.:			EP 2003-6015	A 20030318
			CH 2001-2094	A 20011115
			WO 2004-EP2637	A 20040312

OTHER SOURCE(S): MARPAT 141:319999

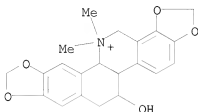
AB The invention relates to alkaloid reaction products obtainable by reaction with an alkylating agent, preferably thiotepa, whereafter unreacted alkylating agent and other water-soluble compds. are removed from the reaction mixture by washing with water or a suitable aqueous solvent, whereafter the reaction mixture is subjected to a treatment with strong acid, preferably HCl, to precipitate a water soluble salt of the reaction products.

The precipitated reaction products comprise at least one quaternary alkaloid derivative and are suitable as drugs for prophylactic or therapeutic application, particularly in the treatment of immunol. or metabolic dysfunctions, and cancer. Chelidonine was reacted with thiotepa to give a quaternary ammonium derivative which was subjected to a number of pharmacol. tests including anticancer activity.

IT 74052-25-8, Chelidoninium, 5-methyl- 765900-94-5

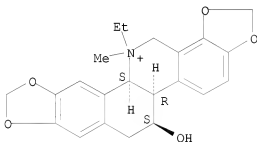
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(quaternary chelidonine and alkaloid derivs. preparation and antitumor

activity)
 RN 74052-25-8 CAPLUS
 CN Chelidoninium, 5-methyl- (9CI) (CA INDEX NAME)



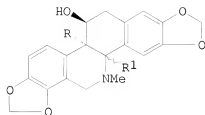
RN 765900-94-5 CAPLUS
 CN [1,3]Benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridinium,
 13-ethyl-5b,6,7,12b,13,14-hexahydro-6-hydroxy-13-methyl-, (5bR,6S,12bS)-
 (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1984:511231 CAPLUS
 DOCUMENT NUMBER: 101:111231
 ORIGINAL REFERENCE NO.: 101:16997a,17000a
 TITLE: Stereochemistry of hydrobenzo[c]phenanthridine alkaloids. Chiroptical properties and absolute configuration of (+)-14-epicorynoline, (+)-corynoline, (+)-chelidonine and related compounds
 AUTHOR(S): Takao, Narao; Kamigauchi, Miyoko; Iwasa, Kinuko; Morita, Noriko; Kuriyama, Kaoru
 CORPORATE SOURCE: Women's Pharm. Univ., Kobe, 658, Japan
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1984), 317(3), 223-37
 CODEN: ARPMAS; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



I

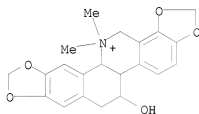
AB Correlation between the CD spectra and the stereochem. properties of (+)-14-epicorynoline (I, R = Me, R1 = β -H), (+)-corynoline (I, R = Me, R1 = α -H), (+)-corynoloxine, (+)-chelidonine (I, R = H, R1 = α -H) and their derivs. and of (+)-homochelidonine was determined

IT 72551-84-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72551-84-9 CAPLUS

CN Chelidoninium, 5-methyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1980:437185 CAPLUS

DOCUMENT NUMBER: 93:37185

ORIGINAL REFERENCE NO.: 93:6009a,6012a

TITLE: Anticancer and antibiotic properties of

N-methylchelidonine methyl sulfate

Zbierska, Janina; Kowalewski, Zdzislaw

Inst. Przem. Zielarskiego, Poznan, 61-707, Pol.

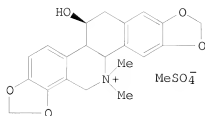
SOURCE: Herba Polonica (1979), 25(4), 311-16

CODEN: HPBIA9; ISSN: 0018-0599

DOCUMENT TYPE: Journal

LANGUAGE: Polish

GI

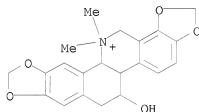


AB N-Methylchelidonine Me sulfate (I) [74052-26-9] was prepared from chelidonine [476-32-4] and di-Me sulfate. I showed greater antitumor activity than chelidonine in vitro, but similar activity in vivo. In antimicrobial testing in vitro, I showed activity similar to that of its parent against bacteria, but greater antifungal activity. I was 10-fold more active than chelidonine against *Penicillium notatum*.

IT 74052-26-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and antimicrobial and antitumor activity of)
 RN 74052-26-9 CAPLUS
 CN Chelidonium, 5-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 74052-25-8
 CMF C21 H22 N O5



CM 2

CRN 21228-90-0
 CMF C H3 O4 S

Me-O-SO₃⁻

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

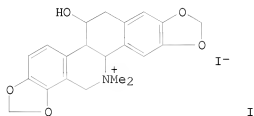
ACCESSION NUMBER: 1980:69348 CAPLUS

DOCUMENT NUMBER: 92:69348

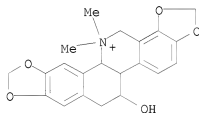
ORIGINAL REFERENCE NO.: 92:11297a,11300a

TITLE: Anticancer and antibiotic properties of chelidonine

methyl iodide
 AUTHOR(S): Zbierska, Janina; Kowalewski, Zdzislaw
 CORPORATE SOURCE: Inst. Przem. Zielarskiego, Poznan, Pol.
 SOURCE: Herba Polonica (1979), 25(3), 209-17
 CODEN: HPBIA9; ISSN: 0018-0599
 DOCUMENT TYPE: Journal
 LANGUAGE: Polish
 GI



AB The anticancer activity of chelidonine Me iodide (I) [72551-84-9] was superior to that of chelidonine [476-32-4] in in vitro expts., but the 2 compds. showed similar activities in in vivo tests. The antimicrobial activity of I was slightly greater than that of chelidonine when tested against 20 strains of microorganisms (bacteria, yeast, fungi). Physicochem. studies related to the structure of I are also reported.
 IT 72551-84-9
 RL: BIOL (Biological study)
 (antibiotic and neoplasm inhibiting activity of)
 RN 72551-84-9 CAPLUS
 CN Chelidoninium, 5-methyl-, iodide (9CI) (CA INDEX NAME)

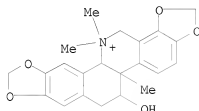


● I⁻

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1973:466627 CAPLUS
 DOCUMENT NUMBER: 79:66627
 ORIGINAL REFERENCE NO.: 79:10767a,10770a
 TITLE: Alkaloids of Papaveraceae. XVII. Alkaloids of
 Corydalis incisa. 10. Structure of
 (+)-14-epicorynoline

AUTHOR(S): Takao, Narao; Bersch, Hans W.; Takao, Sachiko
 CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(5),
 1096-102
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA Issue.
 AB (+)-14-Epicorynoline, isolated from *Corydalis incisa* had structure I based
 on spectral and chemical properties.
 IT 42881-70-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 42881-70-9 CAPLUS
 CN Chelidoninium, 5,13-dimethyl-, iodide, (11a)- (9CI) (CA INDEX NAME)



● I-

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1924:27180 CAPLUS

DOCUMENT NUMBER: 18:27180

ORIGINAL REFERENCE NO.: 18:3679b-e

TITLE: Chelidonium alkaloids. III

AUTHOR(S): Gadamer, J.; Dieterle, H.; Stichel, Anna; Theyssen,
 M.; Winterfeld, K.

SOURCE: Archiv der Pharmazie und Berichte der Deutschen
 Pharmazeutischen Gesellschaft (1924), 262, 249-77
 CODEN: APBDAJ; ISSN: 0376-0367

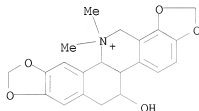
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C. A. 15, 1902. Since the same ring system must be involved in the 4
 alkaloids: chelidonine, homochelidonine, sanguinarine and chelerythrine,
 expts. were undertaken to determine the position of the O atoms functioning in
 the OH, OMe and OCH₂ groups. The most readily available of these
 alkaloids, chelidonine, was chosen as the subject for special study the
 following derivs. being prepared and characterized:
 N-acetylanhydrochelidonine, C₂₂H₁₉O₅N, from anhydrous chelidonine (c), Ac₂O
 and AcONa at the boiling temperature, crystals, m. 152°, yields
 w-anhydrochelidonine, C₂₀H₁₇O₄N, m. 89-89.5° (HCl salt needles,
 m. 204-5°). O-Acetylchelidonine, C₂₂H₂₁O₆N, from (c) and Ac₂O in
 the cold, tablets, m. 165-6°, [α]_D 110° yields with
 Me₂SO₄ followed by boiling with NaOH solution methylanhydrochelidonine,
 C₂₁H₁₉O₄N, needles, m. 152-3° (the latter forming with MeI
 methylanhydrochelidonine methiodide, C₂₂H₂₂O₄NI, needles, m.

242-3°). From the methiodide were obtained methylanhydrochelidonine methonitrate, C₂₂H₂₂O₆N, needles, m. 260-1°, and methylanhydrochelidonine methochloride, needles, m. 215-7°. On exhaustive methylation with MeI, (c) yields at 120° chelidonine methine, C₂₁H₂₁O₅N, rods, m. 145-6°, [α]_D -271-3° (methiodide, C₂₂H₂₄O₅NI, needles, m. 232-4° (decomposition)). Exhaustive methylation with Me₂SO₄, however, converts (c) into a base identical with that resulting from the action of Me₂SO₄ on O-acetylchelidonine, together with some O-methylchelidonine. Reduction of methylanhydrochelidonine methochloride with NaHg leads to the formation of NMe₃ and a N-free product, C₁₉H₁₄O₄, tablets, m. 142-3°. Methylanhydrochelidonine methohydroxide, C₂₂H₂₃O₅N, (from the methiodide and Ag₂O) decomposes on heating at 140°.

IT 72551-84-9P, Chelidonine, methiodide
 RL: PREP (Preparation)
 (preparation of)
 RN 72551-84-9 CAPLUS
 CN Chelidoninium, 5-methyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

=> d his

(FILE 'HOME' ENTERED AT 14:06:47 ON 10 MAY 2010)

FILE 'REGISTRY' ENTERED AT 14:07:06 ON 10 MAY 2010

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 6 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:07:52 ON 10 MAY 2010

L4 7 S L3

L5 1383 S WATER-SOLUBLE FORM?

L6 0 S L4 AND L5

L7 203603 S HYDROCHLORIDE OR HYDROBROMIDE

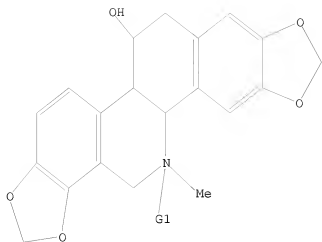
L8 2 S L4 AND L7

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/549,433



G1 H, Me, Et, n-Pr

Structure attributes must be viewed using SIN Express query preparation.

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